

Genomics in Society Interdisciplinary Research Teams (GISIRT)												
List of Applications												
No.	Administrative Genome Centre	Co-Lead Genome Centre	Project Leader		Project Leader		Lead Organization	Title of Project		Keywords		
			Last Name	First Name	Last Name	First Name				Research	Methods	
17101	Genome British Columbia	Génome Québec; Ontario Genomics	Friedman	Jan	Hayeems; Laberge; Lynd	Robin; Anne-Marie; Larry	University of British Columbia	Insight-GWS: Canadian Study of the Clinical Implementation of Genome-wide Sequencing	Human Health	Health services, health economics, health policy, clinical ethics, GE3LS	Health services research, cost-effectiveness analysis, qualitative research, economic evaluation, clinical epidemiology	
17102	Genome British Columbia	NA	Newman	Lenore	NA	NA	University of the Fraser Valley	Food 3.0: Planning for cellular agriculture in Canada's agri-food sector	Agriculture/ Agri-food	Cellular agriculture, agricultural policy, aquaculture, meat substitutes, diffusion of innovation	Literature review, survey, interview, policy analysis, stakeholder engagement	
17103	Genome British Columbia	Ontario Genomics	Regier	Dean A.	Bubela; Hanna	Tanis; Timothy	BC Cancer	Canadian Network for Learning Healthcare Systems and Cost-Effective Omics Innovation (CLEO)	Human Health	Precision oncology Health economic evaluation Preference elicitation Blockchain Law, regulation and policy 1. Which data, methods and evidence support life cycle health technology assessment for sustainable precision oncology reimbursement? 2. What are the features of a secured blockchain-based genomic and health data sharing platform that protect patients' interests while facilitating research and innovation? 3. How can we develop laws, regulations, policies and practices that enhance translational efficiency for precision oncology and promote secure informed LHC initiatives?	1. Life cycle health technology assessment and management of precision oncology 2. Qualitative analysis and quantitative preference elicitation 3. Patient-centric design for secured data sharing using blockchain technology 4. Analyse the legal, regulatory and policy implications of managing access to linked genomic and health data	
17104	Genome British Columbia	NA	Zeriffi	Hisham	Bull	Gary	University of British Columbia	The Impact of Genomic Technologies on Meeting Canada's Sustainable Development Goals	Environment	Sustainable development goals, climate change, land-use, resource production, public perception	Partial Equilibrium Modelling, optimization, resource modelling, surveys, focus groups	
17201	Genome Alberta	Ontario Genomics	Goddard	Ellen	Weersink	Alfons	University of Alberta	Challenges in Agricultural Genomic Technologies	Agriculture/ Agri-food	How can agricultural genomics drive a) reduced environmental impacts from farm and food production? b) enhanced risk management protocols for government/farmers under climate change? c) increased support for further agricultural genomics investment? Given historical agricultural productivity trends, how much has genomics influenced changes in productivity? What are the best governance models to achieve the maximum benefits from agricultural genomics given different technologies, different commodities, different levels of producer adoption, public acceptance?	Economic analysis (regression, simulation modeling, agent based modeling, experiments), focus groups, surveys, Q Methodology, legal research, cost benefit analysis, policy analysis, ADOPT framework for identifying producer adoption of best management of breeding	
17202	Genome Alberta	Ontario Genomics	Murray	Maribeth	Pulsifer	Peter	University of Calgary	The Role of Genomics in Fostering and Supporting Arctic Biodiversity: Implications for Wildlife Management, Policy and Indigenous Food Security	Environment	Arctic, Wildlife, Biodiversity, Conservation, Genomics Knowledge Transfer	Mixed methods – social sciences (qualitative, quantitative, content analysis, survey, interview, workshops), Indigenous approaches, cyber cartography	
17301	Genome Prairie		Clair	Luc	Pierce	Grant		Socioeconomic Impact of Flax-Based Interventions for Treating Chronic Disease	Agriculture/ Agri-food	1. Are flax-based health care interventions for preventing and treating chronic disease cost-effective? 2. What is the premium that consumers are willing to pay for flax-based functional foods given their health benefits in treating chronic disease? 3. Given a flax-based based health care intervention, how much of the functional food or nutraceutical would be needed to treat the affected population?	Regression analysis, survival analysis, economic experiments, cost-effectiveness analysis	
17302	Genome Prairie	NA	Henry	Carol	Bourassa	Carrie	University of Saskatchewan	Participation and Adoption of Genomic research and technologies in Northern Indigenous Communities (PAGNIC): A traditional knowledge perspective	Agriculture/ Agri-food	Indigenous perspectives on genomics, nutrition, Indigenous communities, food security	Community based research, participatory design, sharing groups, indigenous food systems	
17303	Genome Prairie	NA	Phillips	Peter	Smyth Castle	Stuart David	University of Saskatchewan	Digitization and Global Food Security and Sovereignty (DigitalFOOD)	Agriculture/ Agri-food	Digital agriculture; food safety, security and sovereignty; research infrastructure; public-private partnerships	Case studies, decision tools, modelling, behavioural experimentation, surveys, institutional analysis	
17401	Ontario Genomics		Bombard	Yvonne			St. Michael's Hospital	Optimizing the clinical adoption of circulating tumour DNA screening for patients at risk of Hereditary Cancer Syndromes	Human Health	Circulating tumour DNA, Hereditary Cancer syndromes, Early cancer detection, Cancer screening	Qualitative interviews, Surveys, Randomized controlled trial, Discrete choice experiment, Cost-effectiveness analysis	
17402	Ontario Genomics		Fehlings	Darcy			Holland Bloorview Kids Rehabilitation Hospital	Translational Impacts of Cerebral Palsy Genomics	Human Health	genomics of cerebral palsy, health impacts, health economics, clinical translation, knowledge translation	qualitative research, health economics, health impacts, stakeholder engagement, assessment of emotional and physical impacts	
17403	Ontario Genomics		Hayeems	Robin	Ungar	Wendy	The Hospital for Sick Children	Pathways to Implementing High-QUALITY GenOmics Diagnostics in Canada (QUAL-OMICS)	Human Health	Genomic medicine, pediatrics, personal and clinical utility, cost effectiveness, service delivery and governance	Mixed methods, discrete choice experiment, economic evaluation, implementation science, comparative policy analysis	
17404	Ontario Genomics	Genome British Columbia	von Massow	Michael	Weary	Dan	University of Guelph	Barriers and Opportunities for Commercialization of Gene-Edited Beef and Dairy Products	Agriculture/Agri-food	Consumer acceptance, commercialization, gene-editing, value chain analysis	Consumer survey, focus group, historical case study, social media analysis	
17501	Génome Québec		Bouffard	Chantal	Lane	Jule	Université de Sherbrooke	Clinical guidelines, political recommendations and knowledge transfer tools to face the implementation challenges of the Next Generation Sequencing technologies in clinical practices	Human Health	(1) Ethical, legal and social issues in NGS; (2) Political framework and Knowledge transfer tools for genomics and personalized medicine; (3) Implementation sciences and genomics (NGS) (4) Health economics and genomics; (5) Collaborative research	(1) Knowledge to Action model; (2) Systematic mixed studies reviews; (3) Online asynchronous interviews; (4) Discrete choice experiment (5) Agree!	
17502	Génome Québec		Dupras	Jérôme	Gélinas	Nancy	Université du Québec en Outaouais	GenFortiB: Using genomics to increase the resilience of urban forests to local and global change	Forestry	Urban forest, forest genomics, ecosystem services, climate change adaptation, environmental justice	Ecosystem services modeling, Delphi method, Q method, semi-directed interviews, bioinformatics	
17503	Génome Québec	Genome Atlantic	Joly	Yann	Mechoulan	Stephane	McGill University	PathFinder: Making pathogen genome data and isolates more findable and usable across Canada	Agriculture/Agri-food	Genomic data sharing; Pathogens; Food safety, One health; Translational research	Cost-benefit analysis, Comparative law, Mixed-method research; Hypothesis Testing and Inferential methods; EQUiTEA method	
17504	Génome Québec		Roubeau	Guy	Bartlett-Esquillet Baillet	Gillian Sylvain	McGill University	The Neuro Open Science Initiative: measuring scientific, clinical and socioeconomic impacts	Human Health	Neurodegenerative Diseases; Open Science; acceleration of new treatments; economic impact	Validation and dissemination of parameters and tools to enable end-users to collect data on OS and socio-economic impact; outcome-containing datasets that end-users will develop; best practices and other resources to enable stakeholders to establish and manage best OS practice for patients' benefit.	
17505	Génome Québec	Ontario Genomics	Thomassin	Paul	Farmley	Julie	McGill University	Economic Assessment of Human Health Care Costs of Antimicrobial Resistance	Human Health	How can we decrease the amount of Antimicrobial Resistance coming from the Food Supply Chain? What are consumer and stakeholders perceptions of antimicrobial resistance? What private and public policies would reduce the amount of Antimicrobial Resistance? What are the human health costs of Antimicrobial Resistance?	Integrated Assessment Model, Cost Benefit Analysis, Focus Groups, Survey, Macroeconomic Modelling	
17601	Genome Atlantic	Genome Alberta	Wilson	Brenda	McCabe	Christopher	Memorial University of Newfoundland	Knowledge co-creation to accelerate evidence and implementation of genomic technologies in the Canadian health system: The Canadian Genomics Implementation Alliance	Human Health	Clinical utility, implementation science, integrated knowledge translation; health technology assessment	Pragmatic RCTs; economic evaluation; qualitative methods	